

DropControl

WiseConn

Index	
Scheduling Irrigation	5
How to use this document	5
How to use it?	6
Logging into Irrigation	6
Irrigation Components	7
Alarms	8
Actions	9
Stopping Irrigation	9
Activating Irrigation	13
Scheduling Irrigation	20
Irrigation by Sector	20
Add Fertigation	25
Deleting Fertigation	30
Add pH Control	30
Pre-scheduling Irrigation	32
Finishing Irrigation Scheduling	35
Immediate Irrigation	36
Irrigation by Equipment	37
Planning Graph	43
View Scheduled Irrigation	48

View Actual Irrigation.....

Edit Irrigation.....

Deleting Irrigation.....

Monitoring Hydraulic Components.....

Scheduling Irrigation

This document is a user guide for the Irrigation Scheduling function.

This tool will allow you to schedule new irrigations and to check the irrigations scheduled or carried out in your field, in a quick and simple manner.

How to use this document

In order to improve understanding of tasks and steps as explained in this current manual, the following text box has been used.



This box is used whenever the current task has an action that may lead to confusion or a response that may require better understanding from the user.

How to use it?

Logging into Irrigation

In order to log into the *DropControl* application, you must access the following address in your browser: <http://www.dropcontrol.cl>. In order to access you must log in by entering the **Email** and **Password**.



The “**Irrigation**” option has to be selected to enter into the irrigation scheduling page.



Irrigation Components

The Irrigation Scheduling page considers the following parts:

The screenshot displays the 'Campo Mapulhue Programación de Riego' interface. It is divided into several sections, each highlighted with a red border and labeled with a green arrow:

- Alarms:** A table showing alarm details.

Sector / Componente	Fecha	Hora	Alarma	Acciones
Bomba Kiwis	04/10/2011	09:10:33	Contacto Auxiliar	Cerrar
- Actions:** A section with buttons for 'Detener Riego' and 'Activar Riego'.
- Irrigation Scheduling:** A section with buttons for 'Riego por Sector', 'Riego Inmediato', and 'Riego por Equipo'.
- Planning Graph:** A Gantt chart titled 'Gráfico de Planificación' showing irrigation schedules for 'Equipo 1 Kiwis' on '09/12/2011'. The chart displays bars for different irrigation events (K-1 to K-5) with their respective start and end times and durations.

Riego [mm]	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
K-1																								
K-2																								
K-3																								
K-4																								
K-5																								
- Monitoring:** A table showing the status of various components.


Nombre Bomba o Válvula	Tipo Componente Hidráulico	Estado	Tipo de Alarma	Caudal (m³/hr)
Bomba Canal	Bomba	Apagado		
Bomba Cusueles	Bomba	Detención obligada		
Bomba Kiwis	Bomba	Detención obligada	Caudal Bomba (2)	187,20
Válvula 1	Válvula	Apagado		

- **Alarms:** Display of alarms associated to the field, allowing closing them by groups or individually.
- **Actions:** Allows performing irrigation actions, which allow to immediately stop or activate an irrigation.
- **Scheduling Irrigation:** These buttons allow scheduling the irrigations by sector or by irrigation. They also allow to immediately activate an irrigation.
- **Planning Graph:** Information about irrigations scheduled or carried out is displayed according to a Gantt chart-type schedule.
- **Monitoring:** Display of the status of each Pump and Valve in the field.

Alarms

Alarmas				
Sector / Componente	Fecha	Hora	Alarma	Acciones
Bomba Kiwis	04/10/2011	09:10:33	Contacto Auxiliar	 cerrar


The alarms indicate behaviors or measurements that fall out of the range of the sensors associated with hydraulic components or in the sector, for example the flow alarm. The Alarms box displays the alarms associated to the field, allowing closing them whether individually or in group either by hydraulic component or sector.

In case you wish to close only one alarm, click on the  icon. Then confirm the action clicking on the icon **Confirm**.

Alarmas				
Sector / Componente	Fecha	Hora	Alarma	Acciones
Bomba Kiwis	04/10/2011	09:10:33	Contacto Auxiliar	 cerrar


Confirmar Acción

¿ Está seguro que desea cerrar la Alarma seleccionada ?



Confirmar

Cancelar

In case you need to require closing the alarms of a sector or hydraulic component that has more than one alarm, click on the  icon.

A list with the associated alarms will be displayed and also the option to select one or more alarms to close. Click on the “**Confirm**” icon to confirm the action.

Confirmar Acción

¿ Está seguro que desea cerrar las siguientes alarmas ?

	Componente	Fecha / Hora	Alarma
<input checked="" type="checkbox"/>	Bomba Kiwis	07/10/2011 10:57:41	Caudal Bomba - Alarma Baja
<input checked="" type="checkbox"/>	Bomba Kiwis	07/10/2011 10:57:41	Caudal Bomba - Alarma Baja

Confirmar
Cancelar

Alarmas				
Sector / Componente	Fecha	Hora	Alarma	Acciones
Bomba Kiwis	07/10/2011	10:57:41	2 Alarmas	 

Actions

Acciones

Detener Riego
Activar Riego

The Actions box allows access to Stopping Irrigation and Activating Irrigation functionalities. To select one of the options, click the corresponding icon.

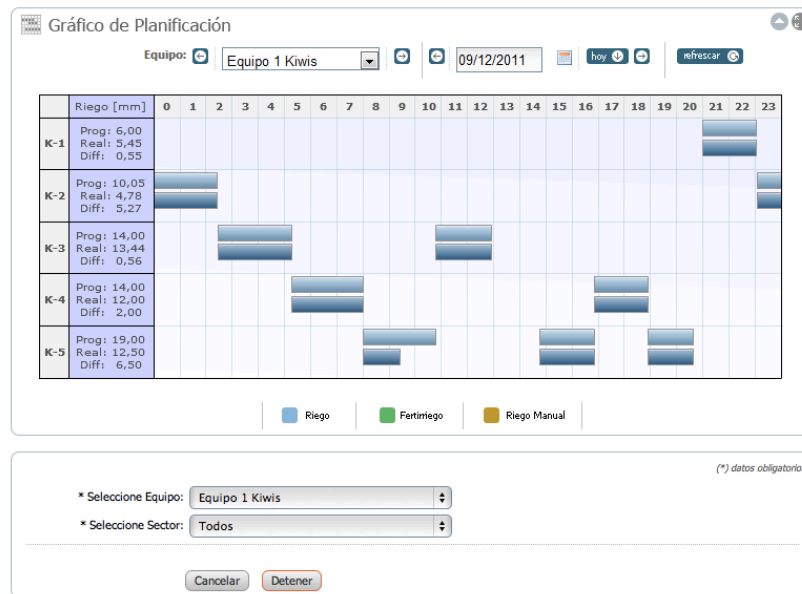
Stopping Irrigation



This functionality allows to stop the irrigations generated in a set field, or all the irrigations of one equipment.

Campo Mapulhue Detener Riego

Hoy: 19 de julio de 2012



Irrigation can be stopped by selecting the equipment to which the sector belongs and then the sector in which the irrigation that will be stopped is being executed.



A list with all the alarms will be displayed. Click on the **“Stopping Irrigation”** icon so as to finally stop the irrigation(s) in place.

If you wish to stop all the irrigations in place in the sectors belonging to the selected equipment, select the **“All”** option.



Only sectors in which an irrigation is in place can be selected.

In case there is no irrigation in place, system will display a warning message about this condition.

Activating Irrigation

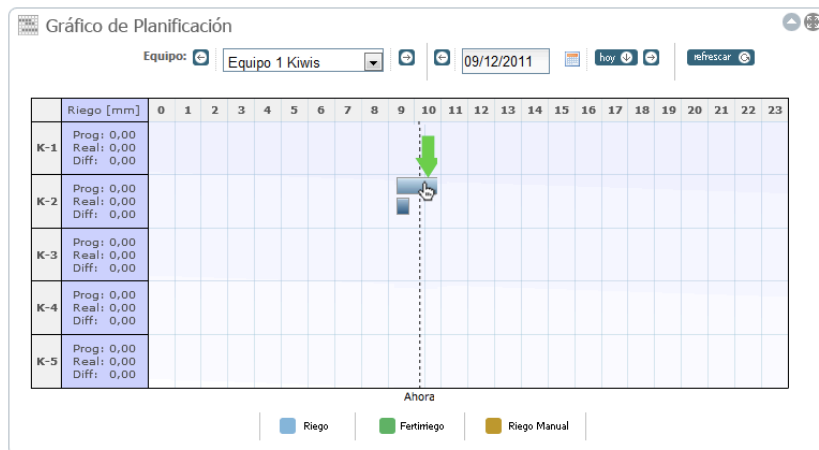


This functionality allows to perform actions on a irrigation that was schedule and stopped by the user while it was being executed through the Stopping Irrigation functionality. It must be considered that the actions are only allowed for scheduled irrigations being executed on the current date, and that have been stopped by the user. This functionality allows to continue an irrigation after stopping it. In addition to continuing an irrigation, the following actions are available:

- Activating: Allows the user to resume irrigation
- Finish: Allows the user to finish a schedule irrigation in order not to activate it
- Editing: Allows the user to edit the scheduled irrigation and then activate it

Activating

This functionality can be accessed through the Activate Irrigation icon, as well as by clicking on the planning graph bar that represents the scheduled irrigation to be activated.



When accessing through the icon, a box will be displayed to select the irrigation sector to be activated.

Select an equipment and sector, then click on the **Activating Irrigation** icon.

System will display irrigation activation message.


Se ha enviado el mensaje de activación del riego al campo.
Revise la programación de riego para confirmar la activación.

Volver



In case access is through the planning graph, the information page of scheduled irrigation will be displayed (see **View Scheduled Irrigation** section), with the Activate option. Click on the **Activating** icon and the system will display the message of irrigation activation.

Campo Mapulhue Hoy: 15 de noviembre de 2011
Ver Riego Programado



Volver Editar Terminar Activar Sector: K-2

Fecha y Tipo de Riego

Fecha y Hora Inicio: 15/11/2011 15:05	Tipo de Riego: Duración
Fecha y Hora Final: 15/11/2011 16:35	Estado: Detenido por Usuario
Duración: 1 Hora 30 Minutos	Enviado a la Red: Sí
Volumen: 3,92 mm	

Usuario Programador: Usuario Piloto Mapulhue

Fertirriego

No tiene fertirriego

Control pH

No tiene control de pH

Volver Editar Terminar Activar



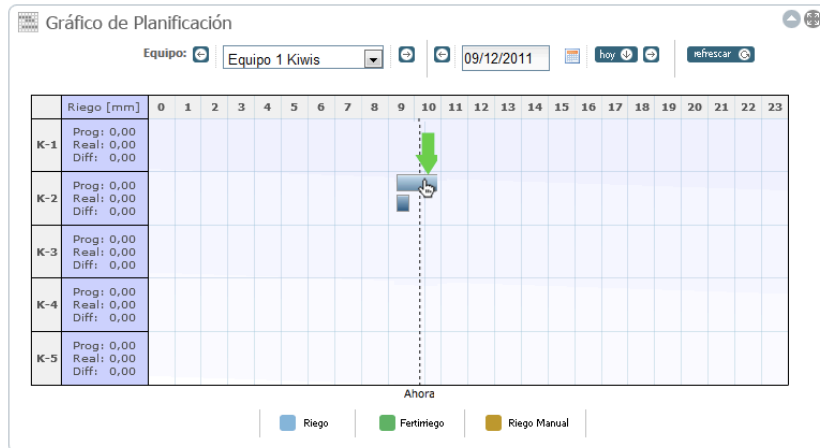
In case there is no irrigation stopped by the user associated to the selected sector system will display a warning message or will not display the **Activate** icon in the **View Scheduled Irrigation** page.



In case current time is after the end time of the irrigation to be activated, system will not allow to perform irrigation activation.

Finish

Finishing an irrigation allows to set the current time as end time for the scheduled irrigation stopped by the user, allowing to schedule new irrigations. To access this functionality, click on the planning graph bar that represents the scheduled irrigation to be finished.



The scheduled irrigation information page will be displayed (see **View Scheduled Irrigation** section), with the **Finishing** option. Click on the **Finish** icon.

Campo Mapulhue Hoy: 15 de noviembre de 2011
Ver Riego Programado

Gráfico de Planificación

Volver Editar **Terminar** Activar Sector: K-2

Fecha y Tipo de Riego

Fecha y Hora Inicio: 15/11/2011 15:05 Tipo de Riego: Duración
 Fecha y Hora Final: 15/11/2011 16:35 Estado: Detenido por Usuario
 Duración: 1 Hora 30 Minutos Enviado a la Red: Sí
 Volumen: 3,92 mm

Usuario Programador: Usuario Piloto Mapulhue

Fertiriego
No tiene fertiriego

Control pH
No tiene control de pH

Volver Editar Terminar Activar

System will display the irrigation completion confirmation message. Confirm the irrigation completion clicking on the **Finish** icon.

Terminar Riego ✕

¿Está seguro que desea terminar este riego?

Terminar Cancelar



In case there is no irrigation stopped by the user associated to the selected sector, system will not show the **Finish** icon in the **View Scheduled Irrigation** page.



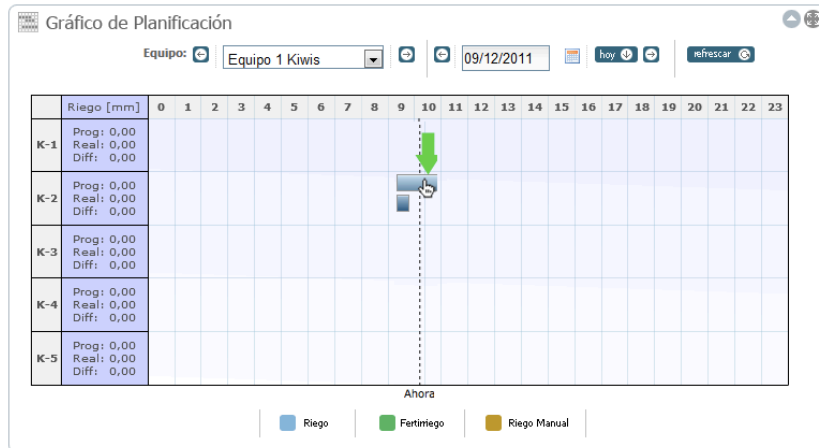
In case current time is after the end time of the irrigation to be activated, system will not allow to perform irrigation completion.

Editing

Editing irrigation allows modifying the irrigation data regarding dates, duration and/or volumes. In addition, it allows adding or removing fertigations and pH control. The following are the considerations for editing:

- The end date inputted by the user or calculated according to the theoretical flow must be after the current date
- Fertigation can be inputted, provided that start and end dates are after the current date
- Fertigation can be edited in case its start date is after the system current date and provided that end date is after the current date
- Fertigation with date prior to current date can be edited only if its end date is after the current date.
- Fertigation with start and end date prior to current date cannot be edited.
- The injector, tank and fertilizer of a fertigation with a start date prior to current date cannot be edited.

To access this functionality, click on the planning graph bar that represents the scheduled irrigation to be edited.



The scheduled irrigation information page will be displayed (see **View Scheduled Irrigation** section), with the **Edit** option. Click on the **Edit** icon.

Campo Mapulhue Hoy: 15 de noviembre de 2011
Ver Riego Programado

Gráfico de Planificación

Volver Editar Terminar Activar Sector: K-2

Fecha y Tipo de Riego

Fecha y Hora Inicio: 15/11/2011 15:05 Tipo de Riego: Duración
 Fecha y Hora Final: 15/11/2011 16:35 Estado: Detenido por Usuario
 Duración: 1 Hora 30 Minutos Enviado a la Red: Sí
 Volumen: 3,92 mm

Usuario Programador: Usuario Piloto Mapulhue

Fertiriego
No tiene fertiriego

Control pH
No tiene control de pH

Volver Editar Terminar Activar

The irrigation edition form will be displayed, allowing you to change irrigation data, according to the considerations mentioned above and the specific validations of **Scheduling and Editing Irrigations** (see **Irrigation Scheduling** and **Editing Irrigation**). Click on the **Scheduling Irrigation** icon after modifying data.

Campo Mapulhue
Editar Riego por Sector

Hoy: 15 de noviembre de 2011

Gráfico de Planificación

Sector: C-1

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 15/11/2011 12:00

* Tipo de Riego: ☐ Fecha y hora final ☐ Volumen ☒ Duración

* Duración: Horas: 1 Minutos: 30

Fecha y Hora Final: 12/01/2012 16:47 Volumen: 4,38 mm

Usuario Programador: Usuario Piloto Mapulhue

Fertirriego ☒ nuevo (*) datos obligatorios

Control pH ☐ (*) datos obligatorios



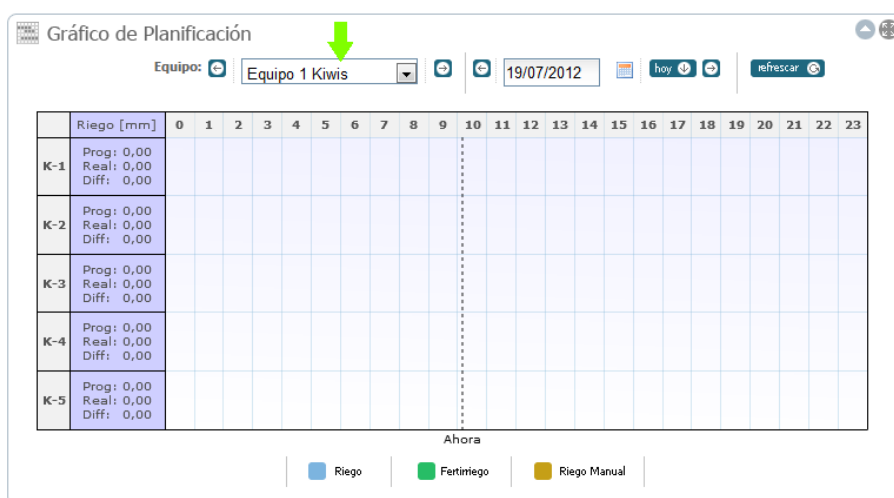
In case there is no irrigation stopped by the user associated to the selected sector or the current date is after the irrigation end date, system will not display the **Edit** icon in the **View Scheduled Irrigation** page.

Scheduling Irrigation



The Scheduling Irrigation box allows access to Irrigation by Sector and Irrigation by Equipment functionalities. To select one of the options, click the corresponding icon.

Irrigation scheduling is related to the equipment selected in the planning graph. To change the equipment, select the desired one from the drop down list.



Irrigation by Sector



This functionality allows to schedule an irrigation in a specific sector. Fertigations and pH control may be added to irrigation to be scheduled.

When selecting the irrigation by sector option, a box will be displayed to select the equipment and sector to be scheduled.



Select sector in the box from the drop-down list. In this sector scheduled irrigation will be created, then click on the “**Irrigation by Sector**” icon.



Then the Irrigation Scheduling form will be displayed, which consists of the following parts:

Campo Mapulhue
Programar Riego por Sector

Hoy: 11 de noviembre de 2011
Hora: 13:34:17

Gráfico de Planificación

Equipos: **Equipo 1 Kieta** 11/11/2011

Riego [mm]	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
K-1	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00
K-2	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00
K-3	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00
K-4	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00
K-5	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00	Riego: 0,00

Alfombra

☐ Riego ☐ Fertiriego ☐ Riego Manual

Equipos: Equipos 1 Kieta
Sector: K-1

Irrigation Form

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 11/11/2011 09:23

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final:

Volumen: + Duración: +

Fertiriego (*) datos obligatorios

pH Control

Control pH ☐ (*) datos obligatorios

Planning Graph

Selected Equipment/Sector

Fertigation Form

Different types of irrigations can be created, which are: **By end time and date**, **by duration** and **by volume**. Select a type of irrigation, depending on the type selected, the irrigation scheduling parameters must be inputted.



For any type of irrigation, first select the start date and time, from the calendar or input it directly in the text box, with the following format: **DD/MM/YYYY HH:MM**

Irrigation by End Date and Time

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 12/01/2012 16:47

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final:

Volumen: - Duración: -

If Irrigation by **End Date and Time** has been selected, select the irrigation end date and time from the calendar or input it directly in the text box, with the following format: **DD/MM/YYYY HH:MM**

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 07/10/2011 17:32

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final:

Volumen:

Fertirriego ☒

Control pH:

Controlar pH: Hora 06 : 14 PM

Cancelar Programar Guardar



In case of using the calendar, first select the time and then click on the required day.



DropControl will calculate the volume and theoretical duration of the irrigation

Irrigation by Volume

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 12/01/2012 16:47

* Tipo de Riego: ☐ Fecha y hora final ☒ Volumen ☐ Duración

* Volumen: mm

Fecha y Hora Final: - Duración: -

If Irrigation by Volume has been selected, the amount of volume in **millimeters** must be entered.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 07/10/2011 17:32

* Tipo de Riego: ☐ Fecha y hora final ☒ Volumen ☐ Duración

* Volumen: mm

Fecha y Hora Final: - Duración: -



DropControl will calculate the end date/time and theoretical duration of the irrigation

Irrigation by Duration

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 12/01/2012 16:47

* Tipo de Riego: ☐ Fecha y hora final ☐ Volumen ☒ Duración

* Duración: Horas: Minutos:

Fecha y Hora Final: - Volumen: -

If Irrigation by Duration has been selected, the **hours** and **minutes** of duration must be inputted.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 07/10/2011 17:32

* Tipo de Riego: ☐ Fecha y hora final ☐ Volumen ☒ Duración

* Duración: Horas: Minutos:

Fecha y Hora Final: - Volumen: -



Add Fertigation



In case the duration is shorter than 60 minutes, the Hour must be inputted: 0



DropControl will calculate the end date/time and theoretical volume of the irrigation

Equipo: Equipo 1 Kiwis
Sector: K-1

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 11/10/2011 12:30

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final: 11/10/2011 13:30

Volumen: 2,92 mm Duración: 01:00

Fertirriego nuevo ☒ (*) datos obligatorios

One or more fertigations can be added to the scheduled irrigation, by clicking on the **nuevo** ☒ icon of the fertigation form.



Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 11/10/2011 12:30

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final: 11/10/2011 13:30

Volumen: 2,92 mm Duración: 01:00

Fertirriego nuevo ☒ (*) datos obligatorios

When indicating a new fertigation, a form is displayed to input the fertigation.

Fertirriego (*) datos obligatorios

nuevo ☒

* Estanque Fertirriego: Seleccione...

* Fertilizante: Seleccione...

* Tiempo de Limpieza: 0 s

* Tipo de Fertirriego: ☒ Fecha y hora ☐ Volumen ☐ Proporcional

* Fecha y Hora Inicio: 11/10/2011 12:30 * Fecha y Hora Fin: 11/10/2011 12:30

☒ borrar



More fertigations can be created clicking again on the **nuevo** ☒ icon

Select the Tank and Fertilizer to be added during the fertigation. In addition, the injector cleaning time in seconds must be indicated.

The screenshot shows a web form titled 'Fertirriego' with a 'nuevo' button and a note '(*) datos obligatorios'. The form contains the following fields:

- * Estanque Fertirriego: A dropdown menu with 'Estanque 1' selected.
- * Fertilizante: A dropdown menu with 'Fertilizante 1' selected.
- * Tiempo de Limpieza: A text input with '60' and a unit 's'.
- * Tipo de Fertirriego: Three radio buttons: 'Fecha y hora' (selected), 'Volumen', and 'Proporcional'.
- * Fecha y Hora Inicio: A date-time picker showing '12/10/2011 10:08'.
- * Fecha y Hora Fin: A date-time picker showing '12/10/2011 10:08'.

A 'borrar' button is located at the bottom right of the form.

Different types of fertigations can be created, which are: **By Time and Date**, **by Volume** and **Proportional**. Select a type of fertigation, depending on the type selected, the scheduling parameters must be inputted.



The hydraulic components, tank and injector, can not be used during the fertigation period by other fertigation, whether in this irrigation or in others.

Fertigation by Date and Time

This screenshot is similar to the previous one but shows the 'Fecha y hora' option selected for the fertigation type. The 'Fecha y Hora Inicio' is set to '12/10/2011 10:35' and the 'Fecha y Hora Fin' is set to '12/10/2011 11:25'.

If Fertigation by Date and Time has been selected, select the fertigation **start and end date and time** from the calendar or input it directly in the text box, with the following format: **DD/MM/YYYY HH:MM**



In case of using the calendar, first select the time and then click on the required day.

Fertirriego (*) datos obligatorios




NUEVO

* Estanque Fertirriego: Estanque 1

* Fertilizante: Fertilizante 1



* Tiempo de Limpieza: 60 s

* Tipo de Fertirriego: ☒ Fecha y hora ☐ Volumen ☐ Proporcional



* Fecha y Hora Inicio: 12/10/2011 10:35  * Fecha y Hora Fin: 12/10/2011 11:25  




Control pH (*) datos obligatorios

Controlar pH:

 **Octubre 2011** 

Lu	Ma	Mi	Ju	Vi	Sá	Do
						1
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Hora: 10 : 35  AM 



The fertigation start and end dates must be included during the scheduled irrigation date. In case it is irrigation by volume and its end date is calculated according to the irrigation volume and theoretical flow of the sector, the system will validate that the fertigation date is included during the theoretical end date. In case dates are out of the allowed range, system will report this error and you will be able to modify the dates.

Fertigation by Volume

Fertirriego (*) datos obligatorios

nuevo

* Estanque Fertirriego:

* Fertilizante:

* Tiempo de Limpieza: s

* Tipo de Fertirriego: ☐ Fecha y hora ☒ **Volumen** ☐ Proporcional

* Fecha y Hora Inicio:

* Volumen: litros

If Fertigation by Volume has been selected, the **start date and time** and the amount of fertilizer volume in **liters** must be entered.

Fertirriego (*) datos obligatorios

NUEVO

* Estanque Fertirriego:

* Fertilizante:

* Tiempo de Limpieza: s

* Tipo de Fertirriego: ☐ Fecha y hora ☒ Volumen ☐ Proporcional

* Fecha y Hora Inicio: * Volumen: litros

borrar



The fertigation start date must be included during the scheduled irrigation date. In case it is irrigation by volume and its end date is calculated according to the irrigation volume and theoretical flow of the sector, the system will validate that the fertigation start date is included between the irrigation start date and the theoretical end date. According to the fertigation volume, system will calculate the theoretical end date for fertigation, which shall also be considered in the scheduled irrigation date. In case dates are out of the allowed range, system will report this error and you will be able to modify the dates or volume.

Proportional Fertigation

Fertirriego (*) datos obligatorios

NUEVO

* Estanque Fertirriego:

* Fertilizante:

* Tiempo de Limpieza: s

* Tipo de Fertirriego: ☐ Fecha y hora ☐ Volumen ☒ Proporcional

* Pre-riego: min * Post-riego: min * Proporción: litros/m³

borrar

If Proportional Fertigation has been selected, **Pre-irrigation Time** in minutes must be inputted, which will be added to the irrigation start date, and the result will be the fertigation start date. The **Pre-irrigation Time** in minutes must be also inputted, which will be subtracted to the irrigation end date, and the result will be the fertigation end date. Lastly, you must input the fertilizer proportion (in relation to the fertilizer injector and pump flows of the pump associated to the fertilizer injector) in **liters/m³**.

Fertirriego (*) datos obligatorios

nuevo

* Estanque Fertirriego: Estanque 1

* Fertilizante: Fertilizante 1

* Tiempo de Limpieza: 60 s

* Tipo de Fertirriego: ☐ Fecha y hora ☐ Volumen ☒ Proporcional

* Pre-riego: 0 min Post-riego: 0 min * Proporción: 0,00 litros/m³

bonar



A proportional fertigation can only be performed if the fertilizer injector and the pump associated to this injector have flow meters associated to them.



Proportion shall be according to the injector and pump flows.

Deleting

Fertigation

If you wish to delete a fertigation during scheduling, you have to click on the icon of the fertigation form.

Fertirriego (*) datos obligatorios

nuevo

* Estanque Fertirriego: Estanque 1

* Fertilizante: Fertilizante 1

* Tiempo de Limpieza: 60 s

* Tipo de Fertirriego: ☒ Fecha y hora ☐ Volumen ☐ Proporcional

* Fecha y Hora Inicio: 12/10/2011 10:35 * Fecha y Hora Fin: 12/10/2011 11:25

bonar

Add pH Control

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 11/10/2011 12:30

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final: 11/10/2011 13:30

Volumen: 2,92 mm Duración: 01:00

Fertirriego nuevo

Control pH ☐

Cancelar Programar Guardar

pH control can be added to the scheduled irrigation, by checking the “pH Control” box in the pH Control form.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 11/10/2011 12:30

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final: 11/10/2011 13:30

Volumen: 2,92 mm Duración: 01:00

Fertirriego nuevo

Control pH ☒

Cancelar Programar Guardar



When selecting the pH Control option, a form is displayed to input the pH control.

Control pH (*) datos obligatorios

Controlar pH: ☒

* Inyector de pH: Seleccione...

* Set Point pH: * Tiempo de post-riego: s * Tiempo de post-riego: s



In order to add pH control, you must indicate the pH injector, pH set point value (maximum pH value) and pre and post irrigation periods in seconds in order to start the pH control.

Control pH (*) datos obligatorios

Controlar pH: ☒

* Inyector de pH: 

* Set Point pH:  * Tiempo de post-riego: s  * Tiempo de post-riego: s 

Pre-scheduling Irrigation

More than one irrigation can be pre-scheduled during the irrigation by sector scheduling, prior to completion. To pre-schedule an irrigation, save the irrigation after inputting the information, clicking on the Save icon.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 13/01/2012 15:00

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen

* Fecha y Hora Final:

Volumen: 4,38

Nuevo Riego ✕

Equipo: Equipo 1 Kiwis

Sector: K-1

Terminar Crear

Fertirriego ☒ (*) datos obligatorios

Control pH ☐ (*) datos obligatorios

Cancelar Programar

Riegos Pre Programados

Sector	Fecha/Hora Inicio	Fecha/Hora Fin	Volumen	Editar	Eliminar
K-1	13/01/2012 17:00	13/01/2012 18:30	4,38		

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 13/01/2012 15:00

* Tipo de Riego: ☐ Fecha y hora final ☒ Volumen ☒ Duración

* Duración: Horas: 1 Minutos: 30

Fecha y Hora Final: 13/01/2012 16:30 Volumen: 4,38 mm

Fertirriego ☒ (*) datos obligatorios

Control pH ☐ (*) datos obligatorios

Cancelar Programar Guardar

A box will be displayed to select the equipment/sector for the next irrigation. A table will also be displayed with information regarding the pre-scheduled irrigations (saved).

To create a new irrigation, select the equipment/sector and click on the “Create” icon.



The irrigation form will be displayed again, contextualised by the equipment/sector selected. The irrigation information must be entered in the displayed form, then click on the Save icon.



Sector	Fecha/Hora Inicio	Fecha/Hora Fin	Volumen	Editar	Eliminar
K-1	13/01/2012 17:00	13/01/2012 18:30	4,38		





The box to select the equipment/sector for the next irrigation will be displayed again. The new irrigation will be also included in the pre-scheduled irrigation table.

Sector	Fecha/Hora Inicio	Fecha/Hora Fin	Volumen	Editar	Eliminar
K-1	13/01/2012 17:00	13/01/2012 18:30	4,38		
K-2	13/01/2012 19:00	13/01/2012 20:30	4,51		

In case there are no more irrigations to be scheduled, click on the Finish icon.



When finishing the pre-scheduled irrigation, the form will be displayed as disabled, and only the delete or edit option will be enabled for pre-scheduled irrigation. To edit, click on the  icon. To eliminate, click on the  icon.

Sector	Fecha/Hora Inicio	Fecha/Hora Fin	Volumen	Editar	Eliminar
K-1	13/01/2012 17:00	13/01/2012 18:30	4,38		
K-2	13/01/2012 19:00	13/01/2012 20:30	4,51		

In case of selecting the Edit option, the form will be displayed again allowing you to input the irrigation information. In addition, new pre-scheduled irrigations can be entered.

Finishing Irrigation Scheduling

To finish the irrigation scheduling, click on the “**Scheduling**” icon.

Fecha y Tipo de Riego
(*) datos obligatorios

* Fecha y Hora Inicio: 11/10/2011 12:30

* Tipo de Riego: ☒ Fecha y hora final ☐ Volumen ☐ Duración

* Fecha y Hora Final: 11/10/2011 13:30

Volumen: 2,92 mm Duración: 01:00

Fertirriego nuevo
(*) datos obligatorios

Control pH
(*) datos obligatorios

Cancelar Programar Guardar



Irrigation Scheduling will not be allowed to finish if the start date and time is prior to the current time. System will display an error message indicating this is happening.



There can not be another scheduled irrigation within the same irrigation period, in the same sector. System will display an error message indicating this is happening.



Irrigation scheduling will not be finished if there is any scheduled irrigation within the new irrigation period and the equipment does not allow parallel irrigation, in any of the equipment sectors. System will display an error message indicating this is happening.

Immediate Irrigation



This functionality allows scheduling irrigation with the difference that the irrigation start date cannot be modified and it is pre-filled with the current date/time.

When selecting the immediate irrigation option, a box will be displayed to select the sector to be scheduled.



Select the sector in the box from the drop-down list, the immediate irrigation will be created in this sector and then click on the “**Immediate Irrigation**” icon.

The image shows two sequential screenshots of a software interface for 'Riego Inmediato' (Immediate Irrigation). Both windows have a title bar with a close button (X). The left window shows a form with 'Equipo' set to 'Equipo 1 Kiwis' and 'Sector' set to 'K-1'. A dropdown menu for 'Sector' is open, showing options K-1, K-2, K-3, K-4, and K-5. A 'Cancelar' button is at the bottom right. The right window shows the same form, but the 'Riego Inmediato' button is highlighted with a green arrow, and the 'Cancelar' button is also visible.

Then the form Immediate Irrigation by Sector will be displayed.

The image shows a screenshot of the 'Campo Mapulhue' 'Riego Inmediato por Sector' form. The top right corner indicates the date 'Hoy: 11 de noviembre de 2011'. The main section is titled 'Gráfico de Planificación' (Planning Graph). It features a grid with columns for hours (0 to 23) and rows for sectors (K-1 to K-5). Each cell in the grid contains 'Prog: 0,00', 'Real: 0,00', and 'Diff: 0,00'. Below the grid is a legend with three items: 'Riego' (blue square), 'Fertiriego' (green square), and 'Riego Manual' (yellow square). Below the legend are three sections: 'Fecha y Tipo de Riego' with a date field set to '11/11/2011 13:40' and radio buttons for 'Fecha y hora final', 'Volumen', and 'Duración'; 'Fertirriego' with a 'Fertirriego' button; and 'Control pH' with a checkbox. At the bottom are 'Cancelar' and 'Programar' buttons.

Creating an Immediate Irrigation is similar to Scheduling Irrigation by Sector, except for the difference that the start time is the current time and is not amendable. Therefore, for further details on how to create irrigation, refer to the section Irrigation by Sector. In case creating a fertigation is needed, refer to section Adding Fertigation and in case creating pH control is needed, refer to section Adding pH Control.

Irrigation by Equipment



This functionality allows scheduling several irrigations for sectors belonging to a single equipment, based on start date, and irrigation volume or duration. Irrigations will be created in chain, i.e. when finishing one irrigation, the next one starts, according to the order given in the creation of irrigation by equipment.

The Irrigation by Equipment scheduling relates to the equipment selected in the planning graph. To change the equipment, select the desired one from the drop down list.



When selecting the option Irrigation by Equipment, the following screen is displayed:

The start date of the first irrigation must be inputted from the calendar or directly in the text box, with the following format: **DD/MM/YYYY HH:MM**

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 11/11/2011 16:13

Usuario Programador: Usuario Piloto Mapulhue

Noviembre 2011

Sector	Lu	Ma	Mi	Ju	Vi	Sá	Do	Volumen
✓ Sector: K-1								0.00 mm
✓ Sector: K-2								0.00 mm
✓ Sector: K-3								0.00 mm
✓ Sector: K-4								0.00 mm
✓ Sector: K-5								0.00 mm

Hora 04 : 13 PM

Campo Mapulhue

Programar Riego por Equipo

Usuario Piloto Mapulhue | SALIR

Hoy: 19 de julio de 2012
Hora: 10:56:21



Equipos: Equipo 1 Kiwis

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 19/07/2012 10:58

Usuario Programador: Usuario Piloto Mapulhue

Sector	Duración	Volumen
✓ Sector: K-1	0.00 mm	0.00 mm
✓ Sector: K-2	0.00 mm	0.00 mm
✓ Sector: K-3	0.00 mm	0.00 mm
✓ Sector: K-4	0.00 mm	0.00 mm
✓ Sector: K-5	0.00 mm	0.00 mm

Fertilriego (*) datos obligatorios



Control pH (*) datos obligatorios

Cancelar Programar Riego
















In case of using the calendar, first select the time and then click on the required day.

The irrigations order can be selected, moving the sectors position up or down with the   icons.


Fecha y Tipo de Riego (*) datos obligatorios











* Fecha y Hora Inicio: 19/07/2012 11:46  Usuario Programador: Usuario Piloto Mapulhue

<input checked="" type="checkbox"/>	Sector: K-1	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-2	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-3	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-4	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-5	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 

By default, all sectors are checked to create an irrigation. If a sector needs to be disabled to avoid creating irrigation, click on the selection box to eliminate the enabling check.


Fecha y Tipo de Riego (*) datos obligatorios











* Fecha y Hora Inicio: 19/07/2012 11:50  Usuario Programador: Usuario Piloto Mapulhue

<input checked="" type="checkbox"/>	Sector: K-1	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input type="checkbox"/>	Sector: K-2	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-3	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input type="checkbox"/>	Sector: K-4	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-5	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	0,00 mm	 

Irrigation duration in hours-minutes or volume in millimeters must be entered for each sector enabled for irrigation.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 19/07/2012 11:52  Usuario Programador: Usuario Piloto Mapulhue

<input checked="" type="checkbox"/>	Sector: K-1	<input checked="" type="radio"/> Duración <input type="radio"/> Volumen	Horas: 1 Minutos: 15	 
<input checked="" type="checkbox"/>	Sector: K-2	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-3	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-4	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-5	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 





The value inputted for the irrigation duration or volume cannot be 0.

The irrigations order can also be selected by dragging a sector up or down, which will change the order.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 19/07/2012 11:56  Usuario Programador: Usuario Piloto Mapulhue

<input checked="" type="checkbox"/>	Sector: K-1	<input checked="" type="radio"/> Duración <input type="radio"/> Volumen	Horas: 1 Minutos: 15	 
<input checked="" type="checkbox"/>	Sector: K-2	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-3	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-4	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 
<input checked="" type="checkbox"/>	Sector: K-5	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00 mm	 

Fertigation can be added to irrigations by clicking on the selection box in Fertigation.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 19/07/2012 11:56 Usuario Programador: Usuario Piloto Mapulhue

<input checked="" type="checkbox"/>	Sector	<input checked="" type="radio"/> Duración <input type="radio"/> Volumen	Horas	Minutos	
<input checked="" type="checkbox"/>	Sector: K-1	<input checked="" type="radio"/> Duración <input type="radio"/> Volumen	1	15	<input type="button" value="0"/> <input type="button" value="0"/>
<input checked="" type="checkbox"/>	Sector: K-2	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00	mm	<input type="button" value="0"/> <input type="button" value="0"/>
<input checked="" type="checkbox"/>	Sector: K-3	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00	mm	<input type="button" value="0"/> <input type="button" value="0"/>
<input checked="" type="checkbox"/>	Sector: K-4	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00	mm	<input type="button" value="0"/> <input type="button" value="0"/>
<input checked="" type="checkbox"/>	Sector: K-5	<input type="radio"/> Duración <input checked="" type="radio"/> Volumen	2,00	mm	<input type="button" value="0"/> <input type="button" value="0"/>

Fertirriego ☒ (*) datos obligatorios

* Estanque: Seleccione...

* Fertilizante: Seleccione...

* Volumen: litros * Tiempo de Limpieza: s

Control pH ☐ (*) datos obligatorios

Unlike fertigation scheduling, in Irrigation Scheduling by Sector, the fertigation of Irrigation by Equipment is just of volume type and its start date is given by the start dates calculated for each irrigation by equipment created. The following steps shall be followed to create and add Fertigation:

Select a Tank from the list.



Fertirriego ☒ (*) datos obligatorios

* Estanque: ☒ Seleccione... Estanque 1

* Fertilizante: ☐ Seleccione... Estanque 2

* Volumen: litros * Tiempo de Limpieza: s

Select a Fertilizer from the list.



Fertirriego ☒ (*) datos obligatorios

* Estanque: ☒ Seleccione... Estanque 1

* Fertilizante: ☒ Fertilizante 1

* Volumen: litros * Tiempo de Limpieza: s

Input fertigation volume in liters and cleaning time in seconds.



Fertirriego ☒ (*) datos obligatorios

* Estanque: ☒ Estanque 1

* Fertilizante: ☒ Fertilizante 1

* Volumen: litros * Tiempo de Limpieza: s

To add pH Control, check the pH control box. Select the pH Injector and input the pH Set Point data and the Pre and Post Irrigation Time data.

Control pH ☒ (*) datos obligatorios

* Inyector de pH: Seleccione...

* Set Point pH: * Tiempo de pre-riego: s * Tiempo de post-riego: s

To finish the creation of Irrigation by Equipment, click on the **Scheduling Irrigation** icon.

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 19/07/2012 11:56 Usuario Programador: Usuario Piloto Mapulhue

Sector	Duración	Volumen	Horas	Minutos
<input checked="" type="checkbox"/> Sector: K-1	<input checked="" type="radio"/> Duración	<input type="radio"/> Volumen	1	15
<input checked="" type="checkbox"/> Sector: K-2	<input type="radio"/> Duración	<input checked="" type="radio"/> Volumen	2,00	mm
<input checked="" type="checkbox"/> Sector: K-3	<input type="radio"/> Duración	<input checked="" type="radio"/> Volumen	2,00	mm
<input checked="" type="checkbox"/> Sector: K-4	<input type="radio"/> Duración	<input checked="" type="radio"/> Volumen	2,00	mm
<input checked="" type="checkbox"/> Sector: K-5	<input type="radio"/> Duración	<input checked="" type="radio"/> Volumen	2,00	mm

Fertirriego (*) datos obligatorios

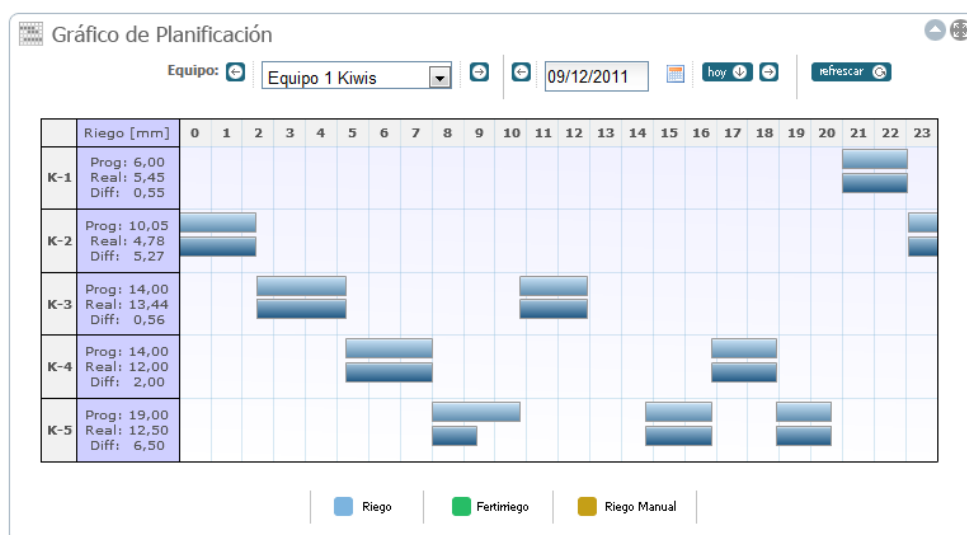
Fertirriego: ☐

Control pH (*) datos obligatorios

Controlar pH: ☐

Cancelar Programar Riego

Planning Graph



The planning graph functionality consists of displaying all irrigations (actual and scheduled) and any associated irrigation or sector alarms. The planning graph gives access to irrigation information, allowing seeing in detail the information for each one.

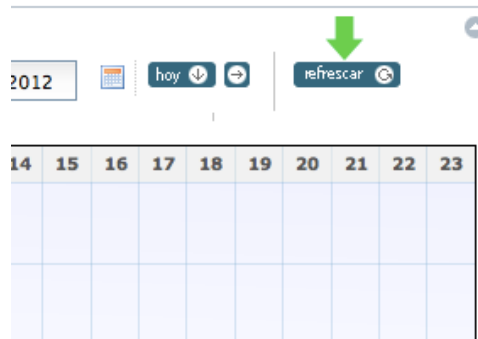
The graph relates to equipment sectors, which can be selected through the equipment drop-down list.




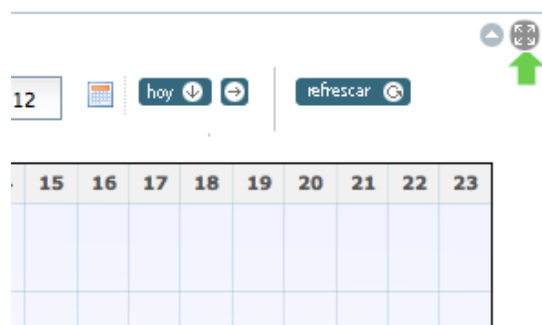
The information is displayed per day (from 00:00 hrs till 23:59 hrs). To select the day, either past or future, navigate through the calendar using the icon. If information from a specific day needs to be displayed, select date from the calendar or enter a date directly using the **DD/MM/YYYY** format. It also has the icon.






In case the information displayed needs to be updated, the update may be done using the “refresh” icon.



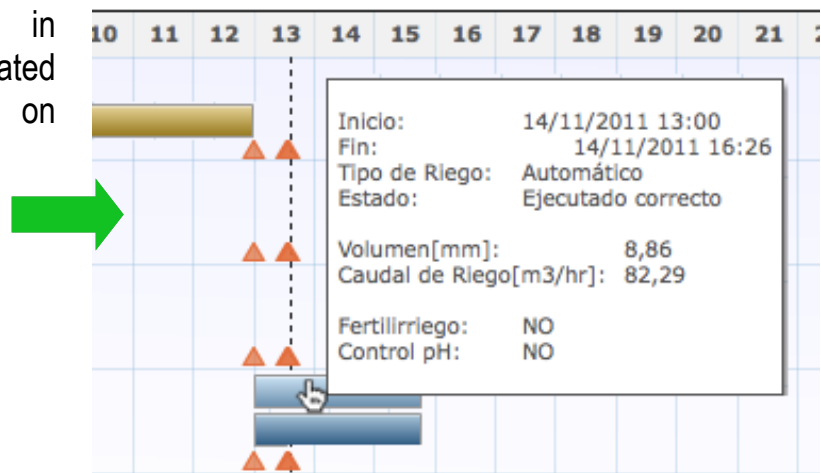
The graph view may be increased by using the  icon.





The planning graph can show actual and scheduled irrigation for certain sectors out in the field. According to type of irrigation or characteristics, irrigation pattern is visualised in different colored patterns.

-  Irrigation:
-  Fertigation
-  Manual Irrigation

Each irrigation represented in the graph has its own associated information, which is displayed on hovering the mouse over the bar.

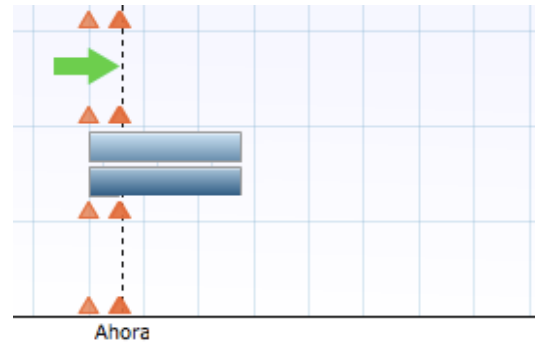


The alarms are also displayed, associated to sectors or to hydraulic components, represented by the  icon. Alarms arising from power cuts are represented by a continuous line () during the length of time that the field is without energy, as well as switches to manual irrigation.

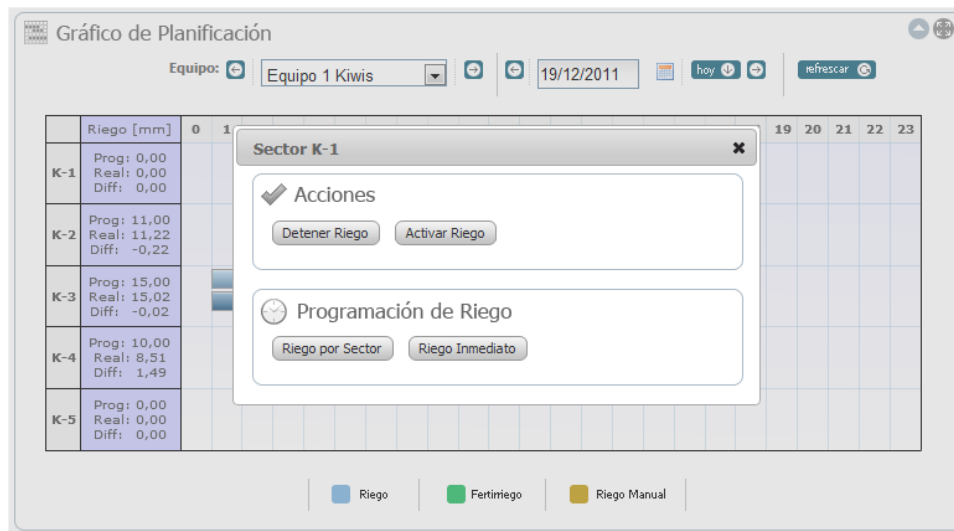
Each alarm represented in the graph has its own associated information, which is displayed on hovering the mouse over the bar.



The planning graph has an indication of the current time, in case display is at current day, done through a vertical line that crosses the whole graph and its sectors




All irrigation functionalities may be accessed by clicking on the sector name, in the left hand side column of the planning graph, which displays a box of options for that sector.

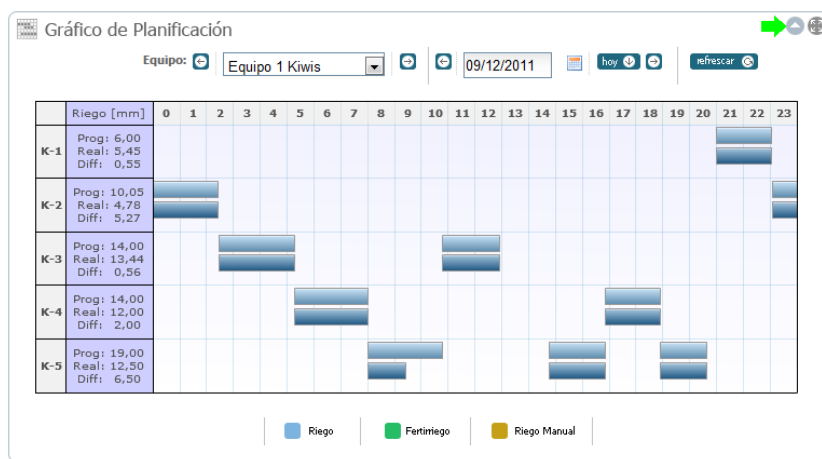


The planning graph is to be displayed in several functionalities, where it is necessary to have irrigation information, such functionalities are the following:

- Irrigation by Sector
- Irrigation by Equipment
- Immediate Irrigation
- View Scheduled and Actual Irrigation

- Editing Irrigation
- Stopping Irrigation
- Activating Irrigation

In all of the pages listed, the planning graph contains all of the functionalities previously mentioned. The graph view may also be increased by using the  icon found in the top right corner.



View Scheduled Irrigation

Campo Mapulhue Ver Riego Programado

Hoy: 14 de noviembre de 2011

Gráfico de Planificación

Volver

Sector: K-1

Fecha y Tipo de Riego

Fecha y Hora Inicio: 13/11/2011 13:30

Tipo de Riego: Volumen

Fecha y Hora Final: 13/11/2011 15:54

Estado: Ejecutado correcto

Duración: 2 Horas 24 Minutos

Enviado a la Red: Sí

Volumen: 7,00 mm

Usuario Programador: Usuario Piloto Mapulhue

Fertiriego

No tiene fertiriego

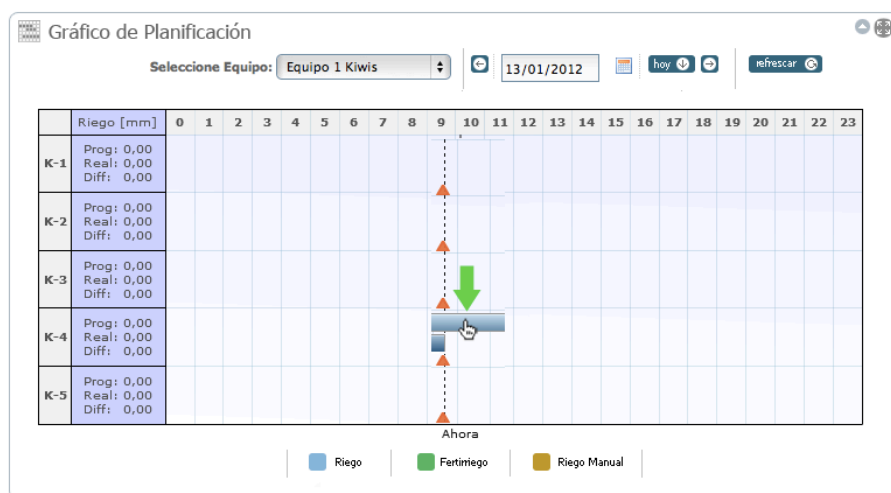
Control pH

No tiene control de pH

Volver

This functionality allows to see information on scheduled irrigation, i.e., the original irrigation scheduling information- Some of the data shown are Irrigation Type (end date and time, volume or duration), start and end date and time, duration, volume, irrigation status and the user that scheduled irrigation. Also, the information on fertigations and pH control is displayed, in case the irrigation has been scheduled including them.

For accessing information on scheduled irrigation, click on any of the planning graph bars.



View Actual Irrigation

Campo Mapulhue Ver Riego Real

Hoy: 14 de noviembre de 2011

Gráfico de Planificación

Volver
Sector: K-5

Fecha y Tipo de Riego

Fecha y Hora Inicio: 13/11/2011 12:50
Tipo de Riego: Manual

Fecha y Hora Final: 13/11/2011 13:19
Estado: Ejecutado correcto

Duración: 29 Minutos

Volumen: 1,14 mm
60,40 m³

Caudal: 124,68 m³/hora

Fertiriego

No tiene fertiriego

Control pH

No tiene control de pH

Volver

This functionality allows to see information on actual irrigation, i.e., the information sent from the irrigation node network. Some of the data shown are Irrigation Type (manual or automatic), start and end date and time, duration, volume, flow and irrigation status. Also, the information on fertigations and pH control is displayed, in case the irrigation has any of them associated.

For accessing information on actual irrigation, click on any of the planning graph bars.

Edit Irrigation

Campo Mapulhue Hoy: 15 de noviembre de 2011
Editar Riego por Sector

Gráfico de Planificación

Sector: C-1

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 15/11/2011 12:00

* Tipo de Riego: ☐ Fecha y hora final ☐ Volumen ☒ Duración

* Duración: Horas: 1 Minutos: 30

Usuario Programador: Usuario Piloto Mapulhue

Fertirriego ☒ (*) datos obligatorios

Control pH ☐ (*) datos obligatorios

Cancelar Programar Riego

This functionality allows editing irrigation that has not yet been executed. For accessing the Edit Irrigation page, click on the irrigation bar to be edited in the planning graph.

On clicking the irrigation bar to be edited, the information page on scheduled irrigation will be displayed, but with the **Edit** option. Click on the Edit icon to modify irrigation data.

Campo Mapulhue

Ver Riego Programado

Hoy: 15 de noviembre de 2011

Gráfico de Planificación

[Volver](#) [Editar](#) [Eliminar](#)

Sector: C-1

Fecha y Tipo de Riego

Fecha y Hora Inicio: 15/11/2011 12:00

Tipo de Riego: Duración

Fecha y Hora Final: 15/11/2011 13:30

Estado: Guardado

Duración: 1 Hora 30 Minutos

Enviado a la Red: No

Volumen: 2,15 mm

Usuario Programador: Usuario Piloto Mapulhue

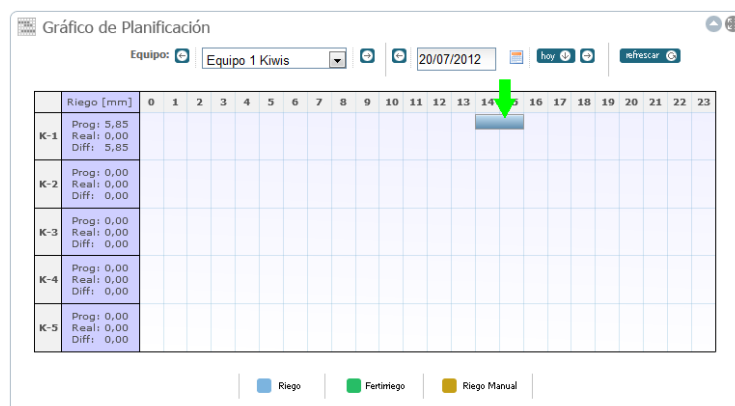
Fertiriego

No tiene fertiriego

Control pH

No tiene control de pH

[Volver](#) [Editar](#) [Eliminar](#)





The irrigation scheduling form will be shown with the fields originally entered. All fields can be modified. In addition, fertirigations can be added or removed and add or remove pH control. To save changes, Click on the **Schedule Irrigation** icon.

Campo Mapulhue Hoy: 15 de noviembre de 2011
 Editar Riego por Sector

Gráfico de Planificación

Sector: C-1

Fecha y Tipo de Riego (*) datos obligatorios

* Fecha y Hora Inicio: 15/11/2011 12:00

* Tipo de Riego: ☐ Fecha y hora final ☐ Volumen ☒ Duración

* Duración: Horas: 2 Minutos: 30

Usuario Programador: Usuario Piloto Mapulhue

Fertirriego ☒ nuevo (*) datos obligatorios

Control pH ☐ (*) datos obligatorios

Cancelar Programar Riego

The system will make all validations regarding start and end dates, volume calculation or theoretical dates and fertigation validations. For more information, refer to Scheduling Irrigation.



In case a scheduled irrigation has already been executed and finished, information cannot be edited.



In case irrigation has already been executed and has not been finished, it can be stopped and edited. Refer to the **Activate Irrigation** section.

Deleting Irrigation

This functionality allows deleting irrigation that has not yet been executed. For accessing the Delete Irrigation functionality, click on the irrigation bar to be deleted in the planning graph.

On clicking the irrigation bar to be deleted, the information page on scheduled irrigation will be displayed, but with the **Delete** option. Click on the Delete icon to delete irrigation.

Campo Mapulhue Hoy: 15 de noviembre de 2011
Ver Riego Programado

Gráfico de Planificación Sector: C-1

Volver Editar **Eliminar**

Fecha y Tipo de Riego

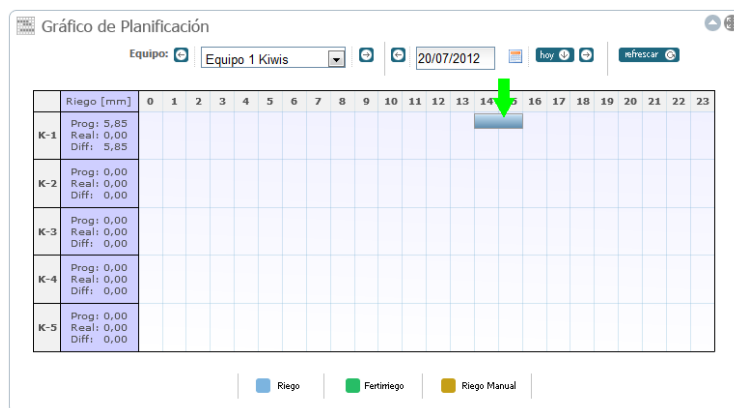
Fecha y Hora Inicio: 15/11/2011 12:00	Tipo de Riego: Duración
Fecha y Hora Final: 15/11/2011 13:30	Estado: Guardado
Duración: 1 Hora 30 Minutos	Enviado a la Red: No
Volumen: 2,15 mm	

Usuario Programador: Usuario Piloto Mapulhue

Fertiriego
No tiene fertiriego

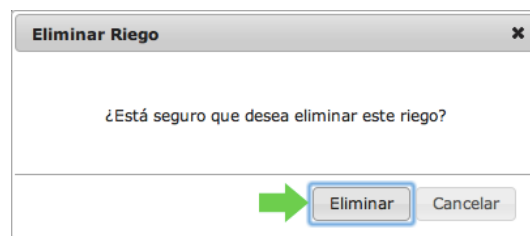
Control pH
No tiene control de pH

Volver Editar Eliminar





The system will request confirmation for irrigation deletion. To confirm, click on the **Delete** icon



In case a scheduled irrigation has already been executed, it cannot be deleted.



In case irrigation has already been executed and has not been finished, it can be stopped and the scheduled irrigation can be finished. Refer to the **Activate Irrigation** section.

Monitoring Hydraulic Components

 Monitoreo

Nombre Bomba o Válvula	Tipo Componente Hidráulico	Estado	Tipo de Alarma	Caudal (m³/hr)
Bomba Canal	Bomba	Apagado		
Bomba Ciruelos	Bomba	Operativo		
Bomba Kiwis	Bomba	Detención obligada	Caudal Bomba (3)	0,00
Válvula 1	Válvula	Detención obligada		

This functionality allows to display the status of hydraulic components, pumps and valves in the field.

All valves and pumps will be showing indicating the following: **Status**, **Alarm Type** (in case one or more alarms are active) and **flow**.



July 2012

Viña del Mar - Chile

The software interface, specifications and options are subject to change with no prior notice.